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(57) Abstract :
A system and method for error-resilient Windows Media Audio (WMA) coding. The system (100) includes an error detection module (104) that analyzes the coded WMA data stream (102) to detect errors using techniques like CRC. It also features an error correction module (106) that applies Forward Error Correction (FEC) and/or interleaving techniques to recover from errors by adding redundancy and rearranging the data stream. Additionally, the system comprises an error concealment module (108) that replaces lost or corrupted data with interpolated data or data from adjacent frames. By employing techniques such as interpolation or frame substitution, the error concealment module mitigates the impact of errors, resulting in a smoother audio playback experience.

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